

REMARKS

Claims 1-17 are pending. By this Amendment, claim 1 is amended and claim 17 is added.

An Election of Species was required and Applicant elected Figs. 1-4. Claims 1-4, 8, 10-12 and 17 read on elected Figs. 1-4 and claim 1 remains generic to non-elected claims 5-7, 9 and 13-16. Rejoinder of the non-elected claims is thus requested when claim 1 is allowed.

Claims 1, 4 and 10-12 were rejected under 35 U.S.C. §102(e), and claims 2, 3 and 8 were rejected under 35 U.S.C. §103(a) over Suss, U.S. Patent No. 6,666,669. The rejections are respectfully traversed.

Suss fails to disclose a device with a track that guides a movable scroll and supports radial inertial forces between a fixed scroll and the movable scroll, as recited in claim 1.

Suss discloses a scroll compressor 1 with a movable displacement element 4 (movable scroll) supported on a supporting part 9 via a base plate 5 and a gear arrangement 7 (track) (col. 4, lines 35-37). The movable displacement element 4 is displaced in relation to a fixed displacement element 2 (fixed part) in an orbiting movement around an axis 8 (col. 5, lines 9-15).

The gear arrangement 7 includes a supporting element 14 with bearing pins 15, 26 that extend into pin paths 18 in the base plate 5 of the movable displacement element 4 along the movement direction 27 (col. 5, lines 25-29). The supporting element 14 also includes bearing pins 16, 17 that extend into pin paths 19, 20 in the supporting part 9 along the movement direction 28 perpendicular to the direction 27 (col. 5, lines 29-32). The gear arrangement 7 is thus structured to allow translation in two coplanar perpendicular directions and avoids a rotation according to an axis perpendicular to the two coplanar directions. The gear arrangement 7 thus converts the rotary motion of the crankshaft 6 into an orbiting movement of the movable displacement element 4.

As shown in Fig. 1, Suss fails to disclose the bearing pins 15, 16 and 17 in contact with a radial side of the base plate 5 or supporting part 9 and a radial gap exists between the movable displacement element 4 and the fixed displacement element 2. Suss also fails to provide any disclosure with regard to the stroke of the bearing pins 15, 16, 17 and 26 in the pin paths 18, 19 and 20. Suss thus fails to provide any disclosure with regard to using the gear arrangement 7 to support the radial inertial forces between the fixed displacement element 2 and the movable displacement element 4.

The ends of the pin paths 18, 19, and 20 cannot form abutments that limit the movement of the gear arrangement 7 in movement directions 27, 28 (and thus support radial inertial forces as recited in claim 1). If the ends of the pin paths 18, 19 and 20 were considered to form abutments that limit the movement of the gear arrangement 7 in the movement directions 27, 28 (and thus support radial inertial forces), the movable displacement element 4 cannot perform an orbital movement relative to the fixed displacement element 2.

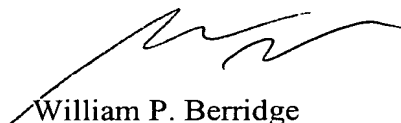
It is respectfully requested that the rejections be withdrawn.

Suss also fails to disclose the additional features recited in claim 17. In Suss, the bearing pins 15, 16, 17 and 26 are located at only four angular positions and thus cannot support radial inertial forces between a fixed scroll and a movable scroll at all angular positions, as recited in claim 17.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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WPB:SMS/sxb

Attachment:
Petition for Extension of Time

Date: December 13, 2005

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